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The Students of Worcester Polytechnic Institute

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TECH NEWS

VOL. 22

WORCESTER, MASS., DEC. 23, 1930

NO. 11

CONSTITUTION IS DRAWN UP BY '34

Class to Use Same Method of Nominations

Article I. Name.

The name of this class shall be "The Class of 1934 of Worcester Polytechnic Institute."

Article II. Members.

The members of this class shall be those persons registered on the books of the Institute, in the class of 1934.

Article III. Officers.

Sec. 1. The officers of this class shall be president, vice-president, secretary, treasurer, auditor, historian, and such members of the Tech Council as are called for by the constitution of that body.

Sec. 2. The president shall preside at all meetings.

Sec. 3. The vice-president shall assume all duties in the absence of the president.

Sec. 4. The secretary shall keep a record of all business and attend to all class correspondence.

Sec. 5. The treasurer shall have charge of all class funds and the collection thereof. He shall keep an accurate and permanent account of all money transactions, and shall present to the Tech Council and to the class a duly audited report before the end of his term of office. He shall further provide a bond of five hundred dollars (\$500.00), the premium of which shall be paid by the class.

Sec. 6. The auditor shall examine the books of the treasurer, before a report of these books is made to the class.

Sec. 7. The historian shall keep a permanent record of all class activities and the activities of the individual members of the class while at college.

Article IV. Term of office.

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MAKE-UP EXAMINATIONS WILL BE GIVEN JAN. 3

Applications Were Due Saturday

In keeping with the policy of the Institute, make up examinations will be given to those students having a deficiency in a second term subject on January 3, 1931, to allow them if possible a passing mark in the course, thereby removing the condition.

The last day for registration was Saturday, December 20. For late registration there will be a nominal fee of five dollars, but, no registration will be accepted within forty-eight hours of the time scheduled for the exams.

Only those students that have received a final mark of E in a subject are eligible to take the examination. No student with an F grade in a subject will be allowed to take an exam in that subject.

Any who fail to appear for a regular condition exam scheduled at this time cannot take that examination at another time except by special permission from the Committee on Students. A student who fails a make up exam must repeat that subject in class the next time it is given.

These examinations, to be given in January, are only for second term failures.

CAPTAIN EARLE GREET'S VISITORS

American Steel Industry Leaders Visit City

President Ralph Earle was kept very busy last Wednesday. He was among those who acted as hosts to the many distinguished members of the American Steel Industry who paid the City of Worcester a visit that day. They came in their private car from New York City Tuesday night and stopped for the night at the Bancroft Hotel. Next morning their hosts escorted them through the South and Central Works of the American Steel and Wire Company. This group and a large group of men representing the interests of Worcester assembled for a luncheon at the Worcester Club. Following this a trip through the North Works of the American Steel and Wire Company was made. After this they embarked on their private car and returned to New York.

Among those present at the luncheon were President James A. Farrell of the United States Steel Corporation, President John S. Keefe of the American Steel and Wire Company and other high officials of this company, President J. J. Pelley of the New York, New Haven and Hartford Railroad, President Edward French of the Boston and Maine Railroad, and Vice-President Howard Biscoe of the New York Cen-

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A. A. BANQUET IS BIG SUCCESS

Letters Awarded to Fall Team Members

The banquet held at Sanford Riley Hall in honor of the football, soccer, and cross-country teams was a great success. The banquet was held in celebration of the successful season in the three sports.

"Doc" Carpenter was master of ceremonies and introduced "Jigger" Jones, who is the present football coach at Worcester Academy and at one time was coach at Tech. The second speaker was Donald Tulloch, who has been the secretary of the Sportsmanship Brotherhood for the past three years and who took the Worcester County soccer team to England. "Doc" Carpenter next introduced Fordyce Blake, a graduate of Harvard, who was a football player himself while at college. Mr. Blake gave an interesting talk which was illustrated by moving pictures, of a 1929 Harvard football game.

Other speakers were President Earle, Moses B. Kaven, and W. H. Burke, the last two being trustees of the Institute.

Next came the presentation of a watch given to "Pete" Bigler, which bears the inscription, "Presented to Ivan Bigler by students of W. P. I. in appreciation of his services as a coach."

Phil Pierce and "Red" Underhill were then called upon to tell about the greatest kick they received this last season. Phil Pierce said that his greatest thrill came at the W. P. I.-Clark cross-country meet when Clark was severely defeated. "Red" Underhill

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TECH ALUMNUS PERFECTS ROCKET

Goddard's Work Announced by Smithsonian Institute

Announcement has been made by the Smithsonian Institute that Dr. R. H. Goddard, W. P. I., 1908, has successfully devised a rocket which can be shot miles above the earth into extremely rarified air. Dr. Goddard is widely known through his rocket experiments as head of the Physics Department at Clark University.

The rocket gets its propulsion from the steady combustion of hydrocarbons in pure oxygen that is carried in the rocket in liquid form. It gets its motion from the reaction on the rocket due to the exhaust of the gases at high velocity. The rocket will have even higher velocity in a vacuum for it does not depend on the surrounding air in the least. Dr. Goddard's most important work was done in the development of automatic stabilizers that will bring the rocket and any recording instruments it may contain, back to earth.

Only a small portion of the earth's atmosphere has ever been tested because the rarity of the atmosphere at high altitudes has prevented any other man-made machine from rising high enough. The Smithsonian Institute sponsored the development of the rocket but now that it is finished it will close its share in the work. However, upon Col. Charles A. Lindberg's recommendation, funds have been granted by the Guggenheim foundation with which these experiments can be carried on and at present this is being done in New Mexico, under the supervision of Dr. Charles G. Abbot, secretary of the Institution.

Dr. Goddard was graduated from the Institute with the class of '08, receiving a B.S. degree in General Science. He continued his studies at Clark, receiving an M.A. degree in 1910 and Ph.D. in 1911. Since then he has been associated with the Physics department of that college and is now head of that department.

TECH NEWS HOLDS MONTHLY MEETING

Awards Bestowed and Theatre Party Planned

The monthly meeting of the TECH NEWS Association was held last Tuesday, December 16, at 4:15 p. m. in the Boynton Hall office.

Among the business transacted was the consideration of several applications for reporterships and reporter's pins. Five reporters were accepted into the Association, T. J. Orzech, '34; F. Moore, '33; W. M. Sura, '34; J. W. Dowgielewicz, '33; A. H. Fuller, '33.

These men were given reporter's pins for thirty inches of copy above that required for a reportership. They were: D. Kayer, '33; E. D. Perkins, '33; and J. W. Dowgielewicz, '33.

The annual theater party of the TECH NEWS Staff was also discussed and plans were made to have this event take place in the near future.

The meeting adjourned at 4:45 p. m.

THE FACULTY ACCEPTS CHANGE IN ELIGIBILITY RULES FOR SPORT

Men Passing Their Work for the Preceding Term Are Eligible for the Entire Semester

Last Thursday evening the faculty accepted the change in the eligibility rules as recently recommended by the Athletic Council. Under these new rules, eligibility lists will be posted only at the end of each semester instead of at the end of each month, and these new rules would be in accord with those of other institutions with which Tech engages in sport competition.

The rule does not affect the regular monthly grading which is given for the benefit of the student body. Only the grades given in February and June are used under this rule. This means that a student ineligible in February will be unable to participate or practice in athletics until the following September, unless he passes a make-up examination in April, while a student becoming ineligible in June will be out of sports until February, unless he passes the make-up examinations in September or January.

Winter sports will be the only ones affected in the middle of the season under the new rules, as they extend throughout both seasons. A student failing in his mid-years will be out of the remainder of the basketball, swimming, or any other sport coming at this time as well as all of the spring athletic activities.

These new rules go into effect on February 5, 1931, which is the first day of the next semester. This means that those failing in their grades for the month of December will be affected by the old rule. It is feared that when these grades are issued the winter sports will suffer.

RONALD PRESS EXPLAINS BOOK

Prof. F. W. Roys' Book Subject of Circular

Prof. A. L. Smith recently received from the Ronald Press Company a circular telling all about the book they have recently published for Prof. F. W. Roys.

The title of this new book by Prof. Roys is "Materials of Engineering Construction." The circular goes on to say that this up-to-date elementary textbook reflects the progressive improvement and development of all the common and most widely used materials of engineering. The aim is to supply the student with an exact and up-to-date knowledge of these materials, it goes deeply enough into their characters, properties, and methods of tests to assure their proper usage if instructions are followed.

In the selection of his material Professor Roys has exercised infinite care. He was as much concerned over what to omit as over what to include. The principle followed in the selection of the

(Continued on Page 2, Col. 5)

S. P. GRACE GIVES TWO ADDRESSES

Lectures on "Marvels of Sound Transmission"

Sergius P. Grace was introduced to a large audience both Wednesday and Thursday nights, December 17th and 18th, in Mechanics Hall, by Mr. Gifford, President of the Worcester Engineering Society, and the local Rotary Club. Mr. Grace gave a lecture and demonstrations on "The Marvels of Sound Transmission." A short time ago this same lecture was given in Springfield two nights and drew a crowd of four thousand persons. This show was planned for only one night in this city but the Engineering Society was very fortunate in being able to arrange a second showing. On the first night, the doors were opened at seven o'clock and there was only standing room at quarter past seven.

For thirty years Mr. Grace has been connected with the telephone and sound transmission. The lead covered cables we see in the telephone manholes are one of his creations as is also the cable terminal. In the space now occupied by one of these three inch cables which are able to carry as many as eighteen hundred conversations at once, at one time only a few years ago, not more than a dozen conversations could be carried on at one time. Mr. Grace referred to the old size wires as bars of copper and that they are as compared with the hair-like lengths of wire now used in the cables.

Mr. Grace claims that ninety percent of the prosperity of this very prosperous country of ours is due directly to research. Because of scientific discoveries nearly everyone is able to have things which even the richest of kings and emperors were unable to have a century or more ago. There seems to be no limit to the extent to which research can be carried by man, especially organized research. A few years ago a great many important inventions were brought about by individuals, as was the telephone by Bell, now seldom anything of any value is brought about by any one person, but instead several individuals are working together, each one is an expert on a certain point, step, or process.

This is brought out clearly in the Bell Telephone Laboratories. These laboratories are a branch of the Bell Telephone System of which the American Telephone and Telegraph Company is the parent organization. The main laboratory is housed in a thirteen story building in New York City. They also have two suburban plants for radio and television study and any other research which can not be carried on in the city. Over five thousand persons are employed in the laboratory work of the telephone company.

He started his demonstration by exhibiting a telephone of the old original type brought out fifty years ago by

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THE HEFFERNAN PRESS
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December 23, 1930

CHRISTMAS

The last days of the closing year always pervade the world with that intangible, yet none-the-less real thing, Christmas spirit. We are affected along with the rest, but having a philosophical turn to our natures we wonder just what it is that makes men masquerade around in red knickers with white fur trimmings, just for the sake of an old custom; or why people elbow their way through a busy, surging, shopping crowd to buy something for somebody else; or why they spend thousands of dollars just to send other people their best wishes for the Holiday Season.

Sometimes we feel the truth of the fact that what individuals think about Christmas and their relations to it vary all the way from the softest sentimentality on the one hand to the hardest, most disgruntled sort of disdain for such weakness on the other. The tendency toward the latter feeling is often strongest during "young man" period with some, and with increasing age it leaves them, unless they grow up to be confirmed and soured cynics. But even the hearts of such men may be touched by weakness, so-called, as Dickens reminds us in the Christmas Carol.

Yet is not this weakness of partaking of the Christmas Spirit altogether exemplary of the more wholesome things by which men live? With all its seething mass of modern business, of production and of financial systems, modern civilization is still without a heart and soul if we do not put human feelings and emotions in it. Through the big maze of the modern machine we sometimes miss the sight of the final goal, the income of human satisfactions. Let's put things in their proper order and put man before things; let's have a greater and stronger Christmas Spirit, and let's do our best to bring its ideals home to the hearts of men.

ENGINEERS

Nineteen hundred years ago this week, a new religion was born into the world, the religion of Christianity. From that small town of Bethlehem, this has spread over the entire world and is going forward with ceaseless force.

On that first Christmas, one especially bright star hung in the heavens over Bethlehem. Today, because of the engineers in electricity, mechanics, and others, we have this star in many homes, shining down from the tips of many evergreen trees.

The engineer has practically re-enacted the angels' chorus of old, through the radio. Who does not have some of the same thrill, as the shepherd of old, when we hear carols come from the air again.

But, engineer and everyone else, must not forget that this religion, which has been exemplified with these lights, was a religion of service and giving, not of service and reward. Forget the reward, the money, for this Christmas season and serve for the joy of serving and helping others.

THE BAND

The band here at Tech is unsupported. Everyone acknowledges that a band lends zest and color to any college athletic event. Many colleges and universities realize that a band is really a necessary thing to make intercollegiate athletics a success, and at those places a position on the band is one of the leading extracurricular activities. The band here at Tech keeps going because of the tireless efforts of a few faithful ones. It began a few years ago under heavy handicaps but these were gradually overcome. Lack of support and co-operation, some derision and even opposition has existed, though most overlook its mistakes and are liberal with applause.

If the band is going to keep alive any of you who can play instruments should come forward and offer your services out of pure loyalty to your Alma Mater. Once out for the band you should not desert it just because some trivial thing does not please you. It is only by your loyalty that a successful band can be made to exist. If we could add the desirable Freshmen to the seasoned players we should soon have a band that could ably represent Tech about town and elsewhere.

Many extracurricular activities are seasonal. The band is not. It should be ready to go at any and every opportunity, from September to Class Day. Come on, you fellows, get your instruments out and get out and join the band.

A. A. BANQUET

(Continued from Page 1, Col. 2)

said that he received his biggest kick from the Norwich game in which Norwich was defeated, 13-12 by the Tech team.

Among the guests were the coaches of the various teams, Prof. C. D. Knight, E. Higginbottom, and C. G. Johnston. The program was ended by the awarding of the sweaters and letters to the men of the various teams.

It is hoped that this banquet will be the beginning of a new custom at Tech in honor of the men on the various teams who certainly deserve a banquet of this kind in their honor.

S. P. GRACE TALK

(Continued from Page 1, Col. 5)

Dr. A. G. Bell. This phone was still in working order in spite of its age. He then showed the loading coil or mathematical coil as it is sometimes termed. Through this device alone over three million dollars have been saved in copper used in wire because of the reduced size which can be used. The newest of these coils are much smaller and more powerful because of the alloy used instead of iron; this new alloy is one hundred times as magnetic as iron. A ribbon of an alloy very similar to

this is to be wound around a telephone cable which is to be laid across the Atlantic Ocean from New Foundland to England. This is possible without any stations in between because of the loading coil effect of the alloy ribbon of cobalt, nickel and steel. Cables will continue to be used in cross oceanic telephones because sunspots and the movement of the magnetic pole do not create a disturbance as they do with radio.

One of his most interesting exhibits was a piece of magnetized cobalt-steel which seemed to overcome the resistance of gravity. When Dr. Whitney, head of the General Electric Laboratories, was asked why it acted as it did he answered, "It is the will of God," and Mr. Grace claims that is the best answer there is to the problem in mind.

In long distance telephone transmission, every mile along the circuit a loading coil is inserted and every fifty miles or so the speech passes through a vacuum tube and is amplified. This vacuum tube is the father of our present day radio tubes and was in use long before radio was discovered.

The Bell Telephone Laboratories now produce an artificial larynx for anyone who is so unfortunate as to have lost the use of those with which God pro-

PROF. ROYS' BOOK

(Continued from Page 1, Col. 4)

content, as also in its manner of presentation, was that of lasting usefulness, both as to pertinent facts and those deep impressions that aid in forming engineering judgments.

The language is lucid and direct. Unusual attention has been paid to clearness of explanation. The text matter is illuminated by nearly two hundred photographs, diagrams, and well arranged tables. These aid excellently in the visualizing of the materials, their characteristics and their properties. Many unusual microphotographs were taken especially for use in this text.

The contents of this book by Professor Roys is very well arranged. It opens with a chapter on the mechanics of materials, including definitions and concepts, and ends up with a talk on paints and varnishes.

vided them. This child of modern research can either be operated by one's own lungs through a hole in the neck or by means of an artificial lung. Several of these are now in use throughout the country. Amongst those using them are listed a jewelry salesman, a

(Continued on Page 3, Col. 1)

To the type of mind that exults in



"high adventure"



Storm warnings on the wing—a new use of the telephone

The telephone has taken wing! And Western Electric men—work-

ing hand in hand with leading airlines—are finding high adventure

in helping to solve the problems of communication so vital to that

growing industry. . . Western Electric's knowledge of voice transmission equipment

manufacture, gained through fifty years of making Bell telephones, is constantly being

applied to new uses in step with the times. The airplane radio telephone is but one

example of this policy . . . Here is a nation-wide business that looks

eagerly for new fields and for the new and better way of serving

old ones. For men of pioneering bent, here is high adventure indeed!



Bell boxes moulded of powdered phenol plastic—a new way of making an old product

Western Electric
Manufacturers... Purchasers... Distributors

SINCE 1881 FOR THE BELL SYSTEM



SPORTS

TECH MEETS CLARK AFTER RECESS

SPORTS

CLARK TO PLAY
HERE ON JAN. 10Tech Quintet Expects to Repeat
Former Victories

In the first Saturday night game after the holidays, the Tech quintet will oppose the Clark five in Alumni Gym on January 10. Tech-Clark contests are always featured by keen rivalry, and prove rugged contests. This year's meeting will in all probability provide sterling basketball.

In the past the Engineers have won a majority of these contests, but not easily. Clark's last basketball victory came two years ago under the leadership of Ray Shanahan, while Bill Graham led the Crimson and Gray through two victories last season. Both were captured very handily, the scores being 39 to 11 and 25 to 6.

Comparative scores indicate less than usual this year, as so far Tech has played but one contest, a very close one, while the Main South five has received at least three drubbings this season.

Captain Asp and his mates will have the benefit of experience gained in the Brown game, and confidently expect to get two victories with which to start the New Year.

ENGINEER FIVE
TO MEET BROWNFirst Game After Holidays to be
in Providence

The first basketball game of the new year is to be played at Providence against Brown University on January 8th. This game should be a hard-fought and very interesting one. Last year, the Bruin five was able to return to Rhode Island with a victory of 36-35 after a hard, clean game to which they had to give their best efforts. With several of last year's team playing for Tech again and determined to retaliate for last year's defeat, the probability of winning is quite good. This is more apparent after the demonstration of team-work given by the team in the last half of the game with Middlebury. Such hard, fast playing as the team displayed then will certainly go a long way toward winning over the Brown quintet. Brown and Tech compete in baseball, football, swimming and basketball, and in all of them the games are hard-fought and usually provide intense interest.

S. P. GRACE TALK

(Continued from Page 2, Col. 5)

railroad station agent, and several others who have to use a telephone a great deal, all of them can be under-

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S. A. E. CAPTURES
1930 RELAY CUP

Winners Twice Tied Record During Season

S. A. E. is the interfraternity relay champion for the year of 1930, as a result of six wins and no losses. Phi Gamma Delta places as a very close second in the final standing, with a record of five wins and one loss. The spirit that was shown by both the competitors and rooters was very good. Every team, winning or losing, always showed that "never say die" spirit, and for that reason all of the quartets are to be commended.

When S. A. E. and Phi Gamma met, both teams were undefeated and it was the objective race for both, because to win meant the cup; to lose, just second place. It was an excellent race and but for a poor start Phi Gamma might have been victorious. Even as it was, Phi Gam pushed the winning S.A.E. quartet of Eagan, Tyler, Denning, and Jensen to tie the record of Quinn, 22.8 seconds. This was the second time this year that they had equaled the record time.

The final standing:

	Won	Lost
S.A.E.	7	0
P.G.D.	6	1
T.U.O.	4	3
L.X.A.	4	3
P.S.K.	3	4
A.T.O.	2	5
T.X.	1	6
S.O.P.	0	7

PRES. EARLE'S TRIP

(Continued from Page 1, Col. 2)

tral System and head of the Boston and Albany Railroad.

President Earle had a dinner engagement with Mr. C. J. Abbott, the local manager of the New England Telephone and Telegraph Company, a subsidiary of the American Telephone Company, which controls the Bell Telephone Laboratories. This dinner was given at the Worcester Club, by the Telephone Company, for Sergius P. Grace, assistant vice-president of the Bell Telephone Laboratories, with Mr. Abbott as host. At this dinner were many of those who attended the luncheon engagement at the same place at noon.

As soon as President Earle could leave, he hurried up to Sanford Riley Hall where the letter men from the Hill were tendered a dinner in the banquet hall. Here he found gathered together the letter men who have participated in the fall sports. Several of these were together for the last time in their college life, as many of them only meet each other on the field or track and have served the Crimson and Gray for the last time.

Coach Bigler, the guest of honor, was presented with a gold watch, a gift from the student body in appreciation for his faithful services as coach and instructor of athletics. The presentation was made by Professor Percy R. Carpenter to Coach Bigler.

stood very easily. When using the artificial lung in connection with the larynx, any effect one may wish can be obtained, even to a dialogue between Amos and Andy, and emotions shown, this was demonstrated with a little love making. An interesting feature of these was the idea of producing spoken words from an artificial lung through an artificial larynx transmitting them to an amplifying set through a miniature microphone and finally out through a large coil speaker, which totaled sixteen feet in length from the sounding disk to the opening, to the audience.

TECH NATATORS
WIN FIRST MEETCrimson and Grey Swimmers
Win from Conn. Aggies 60-17

A strong Tech swimming team swamped Connecticut Aggies last Saturday in the Fuller Pool, taking the long end of a 60 to 17 score. The visitors were completely outclassed from the start and only in one or two races was the Tech team pushed at all. The greatest threat came in the 200-yard breaststroke.

The summary:

Medley relay, won by Tech, R. Driscoll, G. Emerson, and K. Perry. Connecticut Aggies, S. Standish, N. Kaplan, and R. Stewart. Time, 3 min. 29.45 secs.

40-yard free style, won by J. Osipowich, W.; 2d, R. Holcombe, W.; 3d, S. Harger, C. Time, 19.45 secs.

200-yard free style, won by J. Tinker, W.; 2d, R. Sloane, C.; 3d, H. Offers, W. Time, 2 min. 21.35 secs.

120-yard individual medley, won by P. Pittz, W.; 2d, Wissinger, C.; 3d, E. Jones, W. Time, 1 min. 33.25 secs.

Diving, won by M. Sodano, W., 75-4; 2d, M. Zavarella, C., 70-2; 3d, J. Fogg, W., 54-1.

100-yard backstroke, won by R. Driscoll, W.; 2d, J. Standish, C.; 3d, D. Franklin, W. Time, 1 min. 11 secs.

100-yard free style, won by J. Tinker, W.; 2d, K. Perry, W.; 3d, C. Wissinger, C. Time, 57.45 secs.

200-yard breaststroke, won by G. Emerson, W.; 2d, N. Kaplan, C.; 3d, E. Haskell, W. Time, 2 min. 50.35 secs.

160-yard free style relay, won by Worcester Tech, R. Holcombe, K. Perry, J. Osipowich, and J. Tinker. Connecticut Aggies, R. Sloane, S. Harger, J. Standish, C. Wissinger. Time, 1 min. 20.25 secs.

Officials: Referee and starter, H. R. Aldrich; judges at the finish, H. R. Aldrich, Y. M. C. A.; Earle Spencer, Whitinsville; J. Simkonis, Y. M. C. A.; Wallace Hedquist, Worcester Academy; Earl Johnston, Y. M. C. A.; Carington Noel, Worcester. Diving judges, Aldrich, Y. M. C. A.; Spencer, Whitinsville; Johnston, Y. M. C. A. Timers, A. J. Knight, I. E. Bigler, J. E. Rogers; scorer, G. MacCullough.

1934 CONSTITUTION

(Continued from Page 1, Col. 1)

An officer shall hold office until his successor has been elected.

Article V. Elections.

Sec. 1. Candidates for president, secretary, treasurer, auditor, historian, and members of the Tech Council, shall be nominated by a nominating committee composed of one member of each division, elected by the members of that division during the first week of the semester. Nominations must be made by this committee during the first week after their election.

Sec. 2. There shall be a minimum of three nominations, and a maximum of four nominations for each class office.

Sec. 3. Elections shall take place during the third week of the semester, and a majority vote being necessary for election.

Sec. 4. Following the election for president, the two highest remaining candidates shall be voted upon for vice-president.

Sec. 5. All elections shall be by secret ballot.

Article VI. Meetings.

Sec. 1. Meetings may be called at the discretion of the president, or upon a written petition of ten per cent of the class.

Sec. 2. A written notice of such meetings shall be posted by the secretary at least two days preceding said meeting.

TECH LOSES TO MIDDLEBURY
IN FIRST GAME OF SCHEDULETeam Shows Great Spirit in Second Half but is Beaten by Visitors
by Score of 30-27

A whirlwind attack in the first half of last Saturday's basketball game gave Middlebury an eight point lead that was just enough to give the visitors the victory. The Tech team returned for the second half with a spirit that threatened to overcome the visitors' lead and all through this period they outplayed the Vermonters. But Middlebury's fine team work was not to be denied, and the game ended with Middlebury on the long end of a 30 to 27 score.

All through the first half, Ashdown and MacKenzie gave an exhibition of sharpshooting. Time and again, a beautiful passing attack gave these men their chance and they never seemed to miss. With the Tech team watching Ashdown during the second period, Corliss got away and scored enough points to keep his team from defeat.

Corliss led the Vermonters in scoring, rolling up ten points, six of them in the second half. MacKenzie came next with eight, while Ashdown got seven. Johnny Smith and Bill Asp led the home team with nine points apiece. With his team unable to work the ball through the visitors' strong defense, Bill Asp popped a few beautiful shots from midcourt that brought the stands to their feet.

All through the first half the Tech team was thoroughly outplayed but when the team returned for the second period, things began to hum and it was not long before the home team was almost on even terms again. Smith and Decker started the scoring by cashing in from the free flip line, but MacKenzie evened things up with a long shot. Gartrell was next to take a hand and popped one from the side of the court. Johnny Smith got his hands on the ball during a fast scrimmage and made a nice

long one-handed shot for two more points. Asp scored again from the foul line and Smith got another chance under the basket that put Tech within one point of the visitors.

But with the lead almost in their hands, the Tech team was caught napping and a long heave from Bullukian to Corliss, gave the visiting center a chance to add two more points to his total. Cullen scored from the foul line and Tech called for time out.

Upon resuming hostilities, Corliss immediately sank another double counter on a pass from Bullukian, and MacKenzie added another point to his team's score by making good one of two free tries. In a fast scrimmage, Johnny Smith was thrown to the floor and stuck his head rather hard. Again time was called to give him a chance to regain his bearings.

Again, Corliss caught Tech napping and got a chance from under the basket with no one near him to do any preventing. Johnny Smith was removed from the game when he committed his fourth personal. Tech immediately opened up and Gartrell and Asp scored in rapid succession. Middlebury called for time out but upon learning that there were only two seconds left to play, the game was resumed only to be ended as the ball was tossed.

The man to man style of play employed by the Engineers this year made the game much faster and considerably rougher than in former years. Tech had a dozen chances from the foul line but made good only six of them, while the Vermonters missed five out of nine attempts. Middlebury, however, displayed much better teamwork and really deserved to win.

In the preliminary game, the Classical High School team won over the Tech seconds, 31 to 18.

Sec. 3. A quorum shall consist of a majority of the class.

Sec. 4. No member shall be permitted to vote at meetings who has not paid his dues.

Sec. 5. The rule of procedure shall be according to Roberts' Manual. Article VII. Committees.

Sec. 1. All committees shall be appointed by the president unless otherwise directed by the class.

Sec. 2. The nominating committee shall consist of one member from each division of the class.

Sec. 3. The chairman of the committees shall make a complete report of activities and finances at the first meeting after the said committee has stopped functioning.

Article VIII. Dues.

Sec. 1. The dues shall be fifty cents (\$50) each semester.

Sec. 2. Said dues shall be paid within two months after the beginning of each semester.

Sec. 3. If said dues are not paid within the two months period, a fine of twenty-five cents (\$25) shall be added.

Sec. 4. Upon the recommendation of the treasurer, and their adoption by the class, special assessments may be made on the class.

Article IX. Amendments.

Sec. 1. Proposed amendments after being moved, shall be posted on the Institute bulletin boards for one week before being voted upon.

Sec. 2. A two-thirds affirmative vote shall be necessary for the adoption of the amendment.

Sec. 3. Voting on an amendment shall be by secret ballot.

Respectfully submitted,

Donald Packard, Chairman
Paul Sullivan
John H. Keenan
Michael L. Skwarek
James V. Rowley
Warren M. Berrell
Willard P. Greenwood
H. Raymond Sjostedt
E. Hugh Osborne

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How to get a job. Writing the letter of application, samples of tests sometimes given applicants.

If he isn't born with a particular interest in a certain vocation, how may one develop a real, satisfying interest in it?

How to get a raise. Where to locate.

Technique of Executive Control. Schell, Professor of Business Management, M. I. T. (Senior drafting room)

Engineers have at times to manage men as well as materials and forces. This book discusses executive traits (executive tools), i.e., enthusiasm, cheerfulness, calmness, consistency, receptiveness, firmness, tolerance, simplicity, frankness, impressiveness, patience, dignity, courtesy, kindness, friendliness. It suggests how to stimulate subordinates, how to control labor, how to get along with associates and superiors.

The Engineer: His Work and His Education.—Sackett. (Junior-Sophomore drafting room)

Do you feel certain that you are "cut out" to be an engineer? This book gives you tests that you may apply yourself. Test your own ratings (Pg. 38).

It describes the different kinds of engineering work; gives information about progress and salaries of engineering graduates.

It gives an analysis of college engineering courses.

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TECH NEWS CONSTITUTION

According to the Constitution of the TECH NEWS Association and to custom in the past, this year's staff is publishing the Constitution as it was revised last spring. As the Association has been reviewing this, the revised constitution seems to have few if any flaws in it.

ARTICLE 1—Name and Purpose

Sec. 1. This organization shall be known as the TECH NEWS Association of the Worcester Polytechnic Institute.

Sec. 2. It shall be the duty of the TECH NEWS Association to publish the college weekly known as the TECH NEWS.

ARTICLE 2—Membership

The TECH NEWS Association shall consist of any number of men as provided below.

Sec. 1. Six members of the Senior Class, viz., Editor-in-Chief, Managing Editor, Business Manager, News Editor, Associate Editor, and Secretary, who shall constitute the TECH NEWS Board.

Sec. 2. Eight members of the Junior class, viz., two Assistant Business Managers, and six Editorial Assistants known as Junior Editors, who shall act in such capacity as the board may direct and who, in conjunction with the TECH NEWS Board, shall constitute the TECH NEWS Staff.

Sec. 3. Any number of reporters or business assistants who have fulfilled the requirements for membership as defined in Article 4.

ARTICLE 3—Voting

Sec. 1. The six Senior positions as defined in Article 2, Section 1, shall each carry three votes; the eight Junior members described in Article 2, Section 2, shall each have two votes and the reporters and business assistants as described in Article 2, Section 3, shall each have one vote.

Sec. 2. Senior officers, at the expiration of their term of office, and Junior officers failing of election or appointment to the TECH NEWS Board, shall retain one vote each during their undergraduate connection with the Institute.

Sec. 3. Reporters and business assistants failing of election to a higher office shall lose their vote in the Association.

ARTICLE 4—Election to Membership

Sec. 1. A Freshman or Sophomore is eligible for election to the Association as a reporter at the discretion of the Editorial Staff when he has had published 60 inches of 8 point, 13 em measure, solid copy or its equivalent thereof. In applying for membership the applicant must present his printed contributions to the Secretary accompanied by a formal application for membership. This application must be submitted at least one week before a regular meeting of the Association.

Sec. 2. A Freshman or Sophomore is eligible for election to the Association as business assistant when he has helped the Business Manager, or the Assistant Business Managers by folding wrapping, addressing, soliciting advertisements or in any other manner for twenty-five (25) hours, upon the recommendation of one of the Assistant Business Managers and the approval of the Business Manager.

Sec. 3. At the annual election the six Sophomore reporters receiving the highest number of votes shall be elected to the six junior editorial positions, and it shall be the duty of the Senior Editorial Board to recommend four of the Sophomore reporters.

Sec. 4. At the annual election two of the Sophomore business assistants shall be elected by a majority vote of the Association to the positions of Assistant Business Managers.

Sec. 5. At the annual election two of the six Junior Editors shall be elected by a majority vote of the Association to the position of Editor-in-Chief, and Managing Editor, respectively. Of the remaining Junior Editors two shall be appointed by the newly elected Editor-in-Chief and the newly elected Managing Editor to the positions of News Editor and Associate Editor. In case of prolonged disagreements the decision of the ex-Editor-in-Chief shall be asked for and abided by.

Sec. 6. At the annual election either of the Assistant Business Managers shall be eligible for election by a majority vote of the Association to the position of Business Manager.

Sec. 7. By a unanimous vote of the TECH NEWS Board, men showing exceptional ability may be elected to associate editorial positions, such as Art Editors, Photographic Editors, and so forth.

Sec. 8. Either of the two Junior Editors failing of election to the positions of Editor-in-Chief or Managing Editor, or of appointment to the positions of Associate Editor, News Editor, shall be eligible for election to the position of Secretary by a majority vote of the Association.

ARTICLE 5—Duties of Members

Sec. 1. The Editor-in-Chief shall be responsible for the general welfare and editorial policy of the TECH NEWS. It shall be his duty to act as general supervisor of all matters pertaining to the TECH NEWS, and to be in direct charge of all material in the Editorial columns. He shall attend at least seventy-five per cent of the sessions spent in "making-up" the issues of the TECH NEWS.

Sec. 2. The Business Manager shall be responsible for the finances, circulation, and advertising make-up of the TECH NEWS. It shall be his duty to act as supervisor of the Business Managerial Staff. He shall submit a financial report once a month to the Editor-in-Chief and to the Managing Editor. He shall have direct supervision of the work of the Assistant Business Managers, and see that their duties are performed.

Sec. 3. The Managing Editor shall be responsible for the TECH NEWS make-up, proofing, and punctual publication of the TECH NEWS. It shall be his duty to act as supervisor of the Editorial Board. He shall attend every "make-up" session of the NEWS unless the News Editor or Assistant Editor is acting in his stead as provided for in the duties of these officers. It shall be the duty of the Managing Editor to file the records of the authorship of all material published in the NEWS, said records to be kept for a period of three years after the publishing of the material concerned. He shall keep these on an especially printed record sheet a sample of which is shown. These records will be kept with that issue of the paper to which they refer.

Sec. 4. The News Editor of the TECH NEWS shall be responsible for all news appearing in the TECH NEWS. It shall be his duty to make assignments to the Junior Editorial assistants, the Reporters, and the contributors. He shall be expected to work on two issues out of three issues, but shall be responsible for the conduct of the Associate Editor who acts in his stead on the third issue.

Sec. 5. It shall be the duty of the Associate Editor to alternate with the Managing Editor and the News Editor in the discharge of their duties, and he shall have one week of three free. He shall be responsible to the man in whose place he is acting.

Sec. 6. It shall be the duty of the Secretary to give notice of and keep record of all meetings of the TECH NEWS Association and of the Staff. He shall also assist the Managing Editor on at least one issue a month.

Sec. 7. Any Junior Editor (a) if given an assignment by the News Editor, or by the Associate Editor, shall be

responsible for the authenticity and punctual covering of the said assignment; (b) if given charge of a column or department by the Editor-in-Chief shall be responsible for everything contained therein; (c) if given an issue of the TECH NEWS shall assume the responsibilities of the Managing Editor; (d) and he shall have as his duties any task assigned him by any of the Senior Editors.

Sec. 8. Any member shall be required to handle any assignment that may be given him by any of the Senior Editors, and shall be responsible for the punctual writing thereof as well as of the authenticity of the article.

Sec. 9. The Assistant Business Managers shall be responsible for the obtaining of all advertising matter appearing in the columns of the TECH NEWS. They shall be required to perform all duties assigned to them by the Business Manager pertaining to the advertising in the TECH NEWS, and shall also direct the work of the business assistants who are competing for the positions. They shall be responsible for the distribution of the TECH NEWS to all subscribers or others who may be entitled to receive the paper, and shall perform all duties assigned to him by the Business Manager pertaining to the circulation of the TECH NEWS. He shall also direct the work of the business assistants who are competing for this position. They shall be responsible to the Business Manager, whose duty it is to supervise and assign their work.

Sec. 10. Any reporter (a) same as section 7, paragraph (a) above; (b) if given charge, with a junior editorial assistant, of an issue of the TECH NEWS shall be under the direction of said junior editorial assistant (c) same as section 6, paragraph (d) above.

Sec. 11. Any business "competitor" shall be responsible for the efficient fulfillment of all duties assigned to him by either the business manager, or one of the assistant business managers.

Sec. 12. Any man holding an associate editorial position such as Art Editor, Photographic Editor, etc., shall be responsible for the efficient fulfillment of the duties of his position as they may be outlined to him by the TECH NEWS Board.

ARTICLE 6—Vacancies

Sec. 1 (a) In the event of a vacancy in the position of Editor-in-Chief, the Managing Editor shall act as Editor-in-Chief temporarily until one of the Senior Editors is elected by the TECH NEWS Association; (b) in the event of a vacancy in the position of Managing Editor, the Editor-in-Chief shall appoint either the News Editor, or the Associate Editor to fill this position; (c) In the event of a vacancy in the position of News Editor, Associate Editor or Secretary, the TECH NEWS Association shall either choose by a three-fourths vote one of the ex-Junior Editors for that position, or, in the event that such a qualification can not be fulfilled, holding of an election of the man to fill the position shall be decided by the Senior staff.

Sec. 2. In the event of a vacancy among the Junior Editorial Assistants, the TECH NEWS Association shall elect a Junior Editorial Assistant from the ex-reporters of the Junior Class.

Sec. 3. The Assistant Business Managers shall be eligible for election to the positions of Business Manager, in case the latter position becomes vacant; one of the ex-business assistants of the Sophomore class shall be elected to fill the position vacated by the promoted manager.

ARTICLE 7—Recall of Members

Sec. 1. If at any time any member of the TECH NEWS Association fails to perform the duties of his position as laid down in this Constitution, he may be recalled from membership in the Association by a three-quarter vote of the Association. His vacancy shall be filled as provided for under Article 6.

ARTICLE 8—Amendments

Sec. 1. An amendment to this Con-

stitution may be made by a three-quarter vote of the Association.

Sec. 2. An amendment to the Constitution must be submitted in writing at one regular meeting in advance of the action taken upon it and must be published once in the TECH NEWS during the interim.

ARTICLE 9

Sec. 1. All committees shall be chosen by the Editor-in-Chief unless otherwise stipulated by a plurality vote of the Association.

Sec. 2. The chairman of any committee shall make complete reports on all activities and finances of the committee to the Association within one month of the completion of the business of that committee.

ARTICLE 10

Sec. 1. Regular meetings of the TECH NEWS Association shall be held on the first Tuesday of each month and special meetings may be called at the discretion of the Editor-in-Chief or upon the petition of a majority of the members of the association.

Sec. 2. An annual meeting for the election of officers shall be held on the first Tuesday in March.

Sec. 3. A quorum shall consist of a majority of the enrolled members or a representation of two-thirds of the total vote.

Sec. 4. The rule of procedure in all meetings shall be according to Cushing's Manual.

Sec. 5. The Editor-in-Chief shall preside at the meetings of the Association; if he be absent the Managing Editor shall preside; and in the event of the absence of the latter the next member of the editorial staff of the TECH NEWS Board, as set forth in Article 2, Section 1, shall preside.

BY-LAWS OF THE TECH NEWS ASSOCIATION

1. The Editor-in-Chief, Business Manager, and Managing Editor shall be life subscribers to the TECH NEWS, free of charge.

2. The words, Senior, Junior, and Sophomore, shall be interpreted to mean respectively, fourth, third, and second years at the Worcester Polytechnic Institute.

3. All proposed by-laws must be tabled for one month before any action be taken on them.

4. All members of the TECH NEWS Association who are absent from College for one year for any reason, shall retain their membership in the Association when they return if they were members in good standing at the close of their last school year.

5. Charms shall be awarded to all Managers, Senior Editors, and Junior Editorial Assistants, these charms to be made from a standard die held by the Balfour Company of Attleboro, Mass. One person may receive but one charm but in the event of his promotion to higher office the name of the higher position shall be engraved on the reverse side of the charm.

6. Upon the completion of an additional sixty inches of 8 point, 13 em measure, or its equivalent, solid copy which has been published in the TECH NEWS, and has been found to be of a sufficiently high caliber by the judgment of the Senior Staff, a reporter shall be awarded the TECH NEWS lapel pin in recognition of his efforts.

Upon completion of sixteen hours of satisfactory service after having been admitted into the Association, a competitor for the position of Assistant Business Manager shall be entitled to receive the TECH NEWS lapel pin in recognition of his services.

Such a pin will remain in the possession of the reporter or managerial competitor unless he is later the recipient of a TECH NEWS charm; in which case the lapel pin will be returned to the Association. Such lapel pins shall be made from a standard die held by the L. G. Balfour Co. of Attleboro, Mass.

The members of the Senior Staff shall be re-awarded the lapel pin upon their election to that board.